

1                   **Protection for Threatened and Impaired Watersheds, 1999**

2                               Proposed Rule Language  
3                               [from July 7, 1999]

4 **Amend § 895 Abbreviations Applicable Throughout Chapter.**

5 **The following three abbreviations shall be added to this section in**  
6 **alphabetic order.**

7 CDF                   California Department of Forestry and Fire Protection

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9 DFG                   California Department of Fish and Game

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11 RWQCB               Regional Water Quality Control Board

12  
13               Note: Authority cited: Sections 4551, 4551.5 and 21082, Public  
14 Resources Code. Reference: Sections 4511, 4512, 4513, 4521.3, 4522, 4522.5,  
15 4523-4525, 4525.3, 4525.5, 4525.7, 4526, 4526.5, 4527, 4527.5, 4528, 4551,  
16 4551.5, 4552, 4582 and 21080.5, Public Resources Code.

17 **Amend § 895.1. Definitions.**

18 **The following six definitions shall be added to this section in alphabetic**  
19 **order.**

20               "Bankfull stage" means the stage that occurs when discharge fills the  
21 entire channel cross section without significant inundation of the adjacent  
22 floodplain, and has a recurrence interval of 1.5 to 2.0 years.

23  
24               "Channel zone" means that area that includes a watercourse's bankfull  
25 channel and floodplain, encompassing the area between the watercourse  
transition lines.

1  
2 "Saturated soil conditions" means ~~1) the wetness of the soil within a~~  
3 ~~yarding area such that soil strength is exceeded and displacement from timber~~  
4 ~~operations will occur. It is evidenced by soil moisture conditions that~~  
5 ~~result in: a) reduced traction by equipment as indicated by spinning or~~  
6 ~~churning of wheels or tracks in excess of normal performance, or b)~~  
7 ~~inadequate traction without blading wet soil or, c) soil displacement in~~  
8 ~~amounts that cause visible increase in turbidity of the downstream waters in~~  
9 ~~a receiving Class I or II watercourse or lake. Soils frozen to a depth~~  
10 ~~sufficient to support equipment weight are excluded. 2) soil moisture~~  
11 ~~conditions on roads and landings, in excess of that which occurs from normal~~  
12 ~~road watering or light rainfall that will result in the significant loss of~~  
13 ~~surface material from the road and landings in amounts that cause visible~~  
14 ~~increase in turbidity of the downstream waters in a receiving Class I or II~~  
15 ~~watercourse or lake~~ that site conditions are sufficiently wet that timber  
16 operations may displace soils in yarding or mechanical site preparation areas  
17 or road and landing surface materials in amounts sufficient to cause a  
18 turbidity increase in downstream Class I, II, III, or IV waters that is  
19 visible or would violate applicable water quality requirements. Soils or  
20 road and landing surfaces that are hard frozen are excluded from this  
21 definition. In yarding and site preparation areas, this condition is  
22 evidenced by spinning or churning of equipment wheels or tracks in excess of  
23 normal performance, the need to blade soils to provide adequate traction, or  
24 creation of ruts greater than would be normal following a light rainfall. On  
25 logging roads and landing surfaces, this condition is evidenced by pumping of

1 road surface materials by traffic, or creation of ruts greater than would be  
2 created by traffic following normal road watering.

3  
4 "Stable operating surface" means that throughout the period of use, the  
5 operating surface of a logging road or landing does not either generate  
6 sediment or become rutted or deformed to the extent that water can be  
7 channeled along the surface for more than 50 feet.

8  
9 "Watercourse or Lake Transition Line" means that line ~~closest to the~~  
10 ~~watercourse or lake where riparian vegetation is permanently established that~~  
11 is the outer boundary of a watercourse's floodplain as defined by the  
12 following:

13 (1) the upper limit of sand deposition; or

14 (2) evidence of recent channel migration and/or flood debris.

15 The first line of permanent woody vegetation must not be used to determine  
16 this transition line.

17  
18 "Watersheds with threatened or impaired values" means any planning  
19 watershed:

20 (1) that contains or drains to a water body that is listed pursuant to  
21 Section 303(d) of the Federal Clean Water Act as having beneficial uses of  
22 water that are impaired by factors that may be affected by timber operations,  
23 including, but not limited to, sediment and temperature, except any portion  
24 of the planning watershed that contains or drains directly to a portion of  
25 the water body that has been specifically excluded from the Section 303(d)  
list,

1       (2) that contains a water body that is the subject of a Total Maximum  
2 Daily Load that has been adopted to address factors that may be affected by  
3 timber operations, or

4       (3) where populations of anadromous salmonids or populations of other  
5 aquatic or riparian-dependent species that are listed as threatened or  
6 endangered under the State or Federal Endangered Species Acts and are  
7 currently supported or can feasibly be restored, including salmonids listed  
8 as candidate species.

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11       Note: Authority cited: Sections 4551, 4551.5, 4553, 4561, 4561.5,  
12 4561.6, 4562, 4562.5, 4562.7 and 454591.1, Public Resources Code. Reference:  
13 Sections 4512, 4513, 4526, 4551, 4551.5, 4561, 4561.6, 4562, 4562.5, 4562.7,  
14 4583.2, 4591.1, 21001(f), 21080.5, 21083.2 and 21084.1, Public Resources  
Code; CEQA Guidelines Appendix K (printed following Section 15387 of Title 14  
Cal.Code of Regulations), and *Laupheimer v. State* (1988) 200 Cal.App.3d 440;  
246 Cal.Rptr. 82.

15  
16  
17 **Amend §§ 916, 936, and 956 Intent of Watercourse and Lake Protection.**

18       The purpose of this article is to ~~insure~~ assure that ~~the protection of~~  
19 ~~the beneficial uses that are derived from the physical form, water quality,~~  
20 ~~and biological characteristics of watercourses and lakes,~~ aquatic and  
21 riparian species, and the beneficial functions of riparian zones are fully  
22 protected from site-specific and cumulative impacts associated with timber  
23 operations. It is the intent of the Board to restore, enhance, and maintain  
24 the productivity of timberlands while providing equal consideration for the  
25 beneficial uses of water. Further, it is the intent of the Board to clarify  
and assign responsibility, ~~to recognize~~ for recognition of potential and

1 existing impacts of timber operations on the beneficial uses of water,  
2 watercourses and lakes, aquatic and riparian-dependant species, and the  
3 beneficial functions of riparian zones and to ensure adoption of feasible  
4 measures to prevent water pollution related to timber harvesting effectively  
5 achieve compliance with this article. All provisions of this article shall  
6 be applied in a manner which complies with the following:

7 (a) During and following timber operations, the beneficial uses of water,  
8 aquatic and riparian-dependent species, and the functions of riparian zones,  
9 soils and vegetation, shall be maintained where they are in good condition,  
10 effectively protected where they are threatened, and insofar as feasible,  
11 effectively restored where they are impaired.

12 (b) Protection of the quality and beneficial uses of water during the  
13 planning, review, and conduct of timber operations shall comply with all  
14 applicable legal requirements including those set forth in any applicable  
15 water quality control plan adopted or approved by the State Water Resources  
16 Control Board. At a minimum, the LTO shall not do either of the following  
17 during timber operations:

18 (1) Place, discharge, or dispose of or deposit in such a manner as to  
19 permit to pass into the waters of the state, any substances or materials,  
20 including, but not limited to, soil, silt, bark, slash, sawdust, or  
21 petroleum, in quantities deleterious to fish, wildlife, beneficial riparian  
22 zone functions, or the quality and beneficial uses of water;

23 (2) Remove water, trees or large woody debris from a watercourse or lake,  
24 the adjacent riparian area, or the adjacent flood plain in quantities  
25 deleterious to fish, wildlife, beneficial riparian zone functions, or the  
quality and beneficial uses of water.

1        (c) Protecting and restoring aquatic and riparian dependant species, the  
2 beneficial functions of riparian zones and the quality and beneficial uses of  
3 water shall be the primary management objective within any prescribed WLPZ,  
4 or within any planning watershed with threatened or impaired values.

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6        Note: Authority cited: Sections 4551, 4562.7 and 21000(g), Public  
7 Resources Code. Reference: Sections 4512, 4513, 4551.5, 4552, 4562.5,  
8 4562.7, 21001(b), (f), 21002 and 21002.1, Public Resources Code; Sections  
9 100, 1243, 1243.5, 13001, 13001(f), 13146 and 13147, Water Code; and 33 USC  
10 Section 1288(b)(2)(F).

11 **Amend §§ 916.2, 936.2, and 956.2 Protection of the Beneficial Uses of Water**  
12 **and Riparian Functions.**

13        (a) The measures used to protect ~~the beneficial uses of water for~~ each  
14 watercourse and lake in a logging area shall be determined by the presence  
15 and condition of the following values:

16        (1) The existing, potential, and restorable quality and beneficial uses  
17 of water as specified by the applicable water quality control plan and as  
18 further identified and refined during preparation and review of the required  
19 plan.

20        (2) The restorable uses of water for fisheries as identified by the  
21 ~~Department of Fish and Game~~ DFG or as further identified and refined during  
22 preparation and review of the required plan.

23        (3) Riparian habitat that provides for ~~t~~The biological needs of ~~the~~  
24 ~~fish and wildlife~~ aquatic and riparian-dependant species ~~provided by the~~  
25 ~~riparian habitat~~ as specified in 14 CCR 916.4(b) [936.4(b), 956.4(b)].

      (4) Sensitive ~~near stream~~ conditions near watercourses and lakes as  
specified in 14 CCR 916.4(a) [936.4(a), 956.4(a)].

1       These values shall be fully protected from potentially significant  
2 adverse impacts from any timber operation and restored to good condition,  
3 where needed, through a combination of the rules and plan-specific  
4 mitigation.

5       (b) The State's waters are grouped into four classes based on key  
6 beneficial uses. These classifications shall be used to determine the  
7 appropriate minimum protection measures to be applied ~~to the State's waters~~  
8 during the conduct of timber operations. The basis for classification  
9 (characteristics and key beneficial uses) are set forth in 14 CCR 916.5  
10 [936.5, 956.5], Table 1 and the range of minimum protective measures  
11 applicable to each class are contained in ~~Sections 14 CCR 916.3 [936.3,~~  
12 956.3], 916.4(e) [936.4, 956.4], and 916.5 [936.5, 956.5].

13       (c) When the protective measures contained in 14 CCR 916.5 [936.5,  
14 956.5] are not adequate to provide protection to beneficial uses, feasible  
15 protective measures shall be developed by the RPF or proposed by the Director  
16 under the provisions of 14 CCR 916.6 [936.6, 956.6], Alternative Watercourse  
17 and Lake Protection, and incorporated in the THP when approved by the  
18 Director.

19       (d) If it would not be feasible to implement these minimum protective  
20 measures, then alternative practices may be used pursuant to 14 CCR 916.6  
21 [936.6, 956.6].

22  
23       Note: Authority cited: Sections 4551, 4562.7 and 21000(g), Public  
24 Resources Code. Reference: Sections 751, 4512, 4513, 4551.5, 21000(g),  
25 21001(b) and 21002.1, Public Resources Code; Sections 100, 1243, 13050(f)  
Water Code; Sections 1600 and 5650(c), Fish and Game Code; and 33 USC Section  
1288(b)(2)(F).

~~§§ 916.9 [936.9, 956.9] Exclusion of Material from Streams and Lakes.~~

Adopt §§ 916.9, 936.9, 956.9 Protection and Restoration in Watersheds with Threatened or Impaired Values.

In addition to all other district Forest Practice Rules, the following requirements shall apply in any planning watershed with threatened or impaired values:

(a) Every timber operation shall be planned and conducted to prevent any deleterious interference with natural recovery rates and process for the factors that primarily limit the condition of the values set forth in 14 CCR 916.2 [936.2, 956.2](a) (e.g., no net sediment load increase where sediment is a primary limiting factor; no net thermal load increase where water temperature is a primary limiting factor; no net loss of instream large woody debris or recruitment potential where lack of this value is a primary limiting factor; no substantial increase in peak flows or large flood frequency where peak flows or large flood frequency are primary limiting factors). To comply with this objective, every timber operation shall be planned and conducted to meet the following goals:

(1) Result in no net sediment load increase to a watercourse system or lake.

(2) Result in no decrease in the stability of a watercourse channel or of a watercourse or lake bank.

(3) Result in no blockage of any aquatic migratory routes for anadromous salmonids or listed species.

(4) Result in no stream flow reductions during critical low water periods.



1       (5) Protect, maintain, and restore trees (especially conifers), snags,  
2 or downed logs that currently, or may in the foreseeable future, provide  
3 large woody debris recruitment needed for instream habitat structure and  
4 fluvial geomorphic functions.

5       (6) Protect, maintain, and restore the quality and quantity of  
6 vegetative canopy needed to: (i) provide shade to the watercourse or lake,  
7 (ii) minimize daily and seasonal temperature fluctuations, (iii) maintain  
8 daily and seasonal water temperatures within the preferred range for  
9 anadromous salmonids or listed species where they are present or could be  
10 restored, and (iv) provide hiding cover and a food base where needed.

11       (7) Result in no substantial increases in peak flows or large flood  
12 frequency.

13       (b) Adverse cumulative watershed effects on beneficial uses of water  
14 and/or the populations and habitat of anadromous salmonids or listed species  
15 shall be deemed to exist, and the plan shall set forth measures to  
16 effectively reduce such effects.

17       (c) Any timber operation or silvicultural prescription within 200 feet  
18 of any Class I waters or within the standard or expanded width of any Class  
19 II WLPZ shall have protection, maintenance, or restoration of the beneficial  
20 uses of water or the populations and habitat of anadromous salmonids or  
21 listed aquatic or riparian-dependent species as its primary objectives;  
22 harvesting of wood products shall be secondary to those objectives.

23       (d) Nonstandard practices (i.e., waivers, exceptions, in-lieu  
24 practices, and alternative practices) shall comply with the goals set forth  
25 in subsection (a) above as well as with the other requirements set forth in  
the rules.

1       (e) The minimum WLPZ width for Class I waters shall be 150 feet from  
2 the watercourse or lake transition line.

3       (f) For Class I waters, any required plan involving a timber operation  
4 within the WLPZ shall contain the following information:

5       (1) A clear and enforceable specification of how any disturbance or log  
6 or tree cutting and removal within the Class I WLPZ shall be carried out to  
7 conform with 14 CCR 916.2 [936.2, 956.2](a) and 916.9 [936.9, 956.9](a).

8       (2) A specific and enforceable long term monitoring program to  
9 determine the effectiveness of the prescribed practices as implemented during  
10 the timber operation, including the reporting of the monitoring results to  
11 CDF and review team agencies.

12       (3) A description of all existing permanent crossings of Class I waters  
13 by logging roads and clear specification regarding how these crossings are to  
14 be modified, used, and treated to minimize risks, giving special attention to  
15 allowing fish to pass both upstream and downstream during all life stages.

16       (4) Clear and enforceable specifications for construction and operation  
17 of any new crossing of Class I waters to prevent direct harm, habitat  
18 degradation, water velocity increase, hindrance of fish passage, or other  
19 potential impairment of beneficial uses of water.

20       (g) Where an inner gorge is present above a Class I WLPZ and slopes are  
21 greater than 55%, a special management zone shall be established that  
22 requires the use of selection harvesting. This zone shall extend upslope to  
23 the first major break-in-slope, or 300 feet as measured from the watercourse  
24 or lake transition line, which ever is less. When evenaged management is  
25 proposed above a special management zone, but within an inner gorge and on  
slopes that range from 55% to 65%; the proposed operations shall be reviewed

1 by a Certified Engineering Geologist (CEG) prior to plan approval. All  
2 operations on slopes exceeding 65% within an inner gorge shall be reviewed by  
3 a CEG prior to plan approval, regardless of whether they are proposed within  
4 a WLPZ or outside of a WLPZ.

5 (h) All watercourse crossings will be constructed to accommodate the  
6 estimated 100-year flood flow, including debris and sediment loads.

7 (i) The following shall apply to all Class I watercourse crossings:

8 (1) Except for culverts, all new and replaced Class I crossings shall  
9 have a natural bottom.

10 (2) Any new permanent culverts installed within Class I watercourses  
11 shall allow upstream or downstream passage of fish or listed aquatic species  
12 during any life stage and for the natural movement of bedload to form a  
13 stable bed inside the culvert and shall meet the following specifications:

14 (i) The culvert shall be at least equal to the average bankfull channel bed  
15 width at the elevation the culvert intersects the bed; (ii) the culvert shall  
16 be installed at a flat gradient; (iii) the downstream invert shall be  
17 countersunk a minimum of 20% of the culvert diameter or rise; (iv) upstream  
18 headcut potential shall be prevented; (v) the culvert shall accommodate the  
19 100 year flood event, including debris and sediment loads.

20 Any alternative to these specifications requires an analysis and  
21 specifications by a Professional Engineer licensed in California  
22 demonstrating conformance with the intent of this section and subsection.

23 (j)Harvesting is prohibited within the channel zone.

24 (k) Within a WLPZ for Class I waters, at least 85 percent overstory  
25 canopy shall be retained within 75 feet of the watercourse or lake transition  
line, and at least 65 percent overstory canopy within the remainder of the

1 WLPZ. The overstory canopy must be composed of at least 25% overstory  
2 conifer canopy post-harvest. Where these minimum percentages do not  
3 currently exist within the Class I WLPZ, no timber harvesting shall occur  
4 within the Class I WLPZ.

5 (1) The minimum WLPZ width for Class II waters shall be 100 feet from  
6 the watercourse or lake transition line..

7 (m) Within a WLPZ for Class II waters, at least 85 percent overstory  
8 canopy shall be retained within 30 feet of the watercourse or lake transition  
9 line, and at least 65 percent overstory canopy within the remainder of the  
10 WLPZ. The overstory canopy must be composed of at least 25% overstory  
11 conifer canopy post-harvest. Where these minimum percentages do not  
12 currently exist within the Class II WLPZ, no timber harvesting shall occur  
13 within the Class II WLPZ.

14 (n) A 30 to 50 foot wide ELZ or EEZ is required for Class III waters.  
15 All hardwoods shall be retained within the ELZ or EEZ.

16 (o) Recruitment of large woody debris for aquatic habitat in Class I  
17 waters shall be ensured by retaining within the WLPZ at least ten conifers  
18 per 330 feet of stream channel length. The retained conifers shall be: (i)  
19 within 50 feet of the watercourse or lake transition line (ii) among the most  
20 likely to fall into the water, (iii) from the upper 20% of the dbh  
21 distribution of the preharvest stand in the WLPZ, (iv) clearly and  
22 permanently marked, and (v) retained in future harvests unless replaced by a  
23 tree that is of equal or greater size, and that is either more likely to  
24 contribute to recruitment, or is more rot resistant.

25 (p) From October 15 to May 1, (i) no timber operations shall take place  
unless the approved plan incorporates a complete winter period operating plan

1 pursuant to 14 CCR 914.7 [934.7, 965.7] (a), (ii) no skid trails shall be  
2 constructed, reconstructed, or used on slopes that are over 40 percent and  
3 within 200 feet of a Class I, II, or III watercourse, as measured from the  
4 watercourse or lake transition line, and (iii) operation of trucks and heavy  
5 equipment on roads and landings shall be limited to those with a permanent  
6 stable operating surface throughout the period of use.

7 (q) Construction or reconstruction of logging roads, tractor roads, or  
8 landings shall not take place during the winter period. Use of logging roads,  
9 tractor roads, or landings shall not take place where saturated soil  
10 conditions exist, where a stable logging road or landing operating surface  
11 does not exist, or when visibly turbid water from the road, landing, or skid  
12 trail surface or inside ditch may reach a watercourse or lake. Grading to  
13 obtain a dryer running surface more than one time before reincorporation of  
14 any resulting berms back into the road surface is prohibited.

15 (r) All tractor roads shall have drainage and/or drainage collection  
16 and storage facilities installed prior to the start of any rain which causes  
17 overland flow across or along the disturbed surface or any day with a  
18 National Weather Service forecast of a chance of rain of 30 percent or more,  
19 a flash flood warning, or a flash flood watch.

20 (s) Within the WLPZ, EEZ or ELZ, treatments to stabilize soils,  
21 minimize soil erosion, and prevent the discharge of sediment into waters in  
22 amounts deleterious to aquatic species or the quality and beneficial uses of  
23 water, or that threaten to violate applicable water quality requirements,  
24 shall be applied in accordance with the following standards:

25 (1) The following requirements shall apply to all such treatments.

i. They shall be described in the required plan.

1        ii. For areas disturbed from May 1 through October 15, treatment shall  
2 be completed prior to any day for which a chance of rain of 30 percent or  
3 greater is forecast by the National Weather Service or by October 15<sup>th</sup>,  
4 whichever is earlier.

5        iii. For areas disturbed from October 16 through April 30, treatment  
6 shall be completed prior to any day for which a chance of rain of 30 percent  
7 or greater is forecast by the National Weather Service or within 10 days,  
8 whichever is earlier.

9        (2) The traveled surface of logging roads shall be treated to prevent  
10 generation of sediment and concentration of runoff at anytime, and treated  
11 with rock or other suitable material to provide a stable operating surface  
12 during periods of use.

13        (3) The treatment for other disturbed areas, including: (i) areas  
14 exceeding 100 contiguous square feet where timber operations have exposed  
15 bare soil, (ii) approaches to tractor road watercourse crossings between the  
16 drainage facilities closest to the crossing, (iii) road cut banks and fills,  
17 and (iv) any other area of disturbed soil that threatens to discharge  
18 sediment into waters in amounts deleterious to the quality and beneficial  
19 uses of water, may include, but need not be limited to, mulching, rip-  
20 rapping, grass seeding, or chemical soil stabilizers. Where straw, mulch, or  
21 slash is used, the minimum coverage shall be 90%, and any treated area that  
22 has been subject to reuse or has less than 90% surface cover shall be treated  
23 again prior to the end of timber operations.

24        (4) Where the undisturbed natural ground cover cannot effectively  
25 protect beneficial uses of water from timber operations, the ground shall be  
treated by measures including, but not limited to, seeding, mulching, or

1 replanting, in order to retain and improve its natural ability to filter  
2 sediment, minimize soil erosion, and stabilize banks of watercourses and  
3 lakes.

4 (t) As part of the required plan, the RPF shall identify active erosion  
5 sites linked to past management activities in the logging area, shall assess  
6 them to determine which sites pose significant risks to the beneficial uses  
7 of water and which can be feasibly remedied, and shall submit a remedial plan  
8 and time schedule to complete all remedial action for all sites that can be  
9 feasibly remediated.

10 (u) The erosion control maintenance period on permanent and seasonal  
11 roads and associated landings that are not abandoned in accordance with 14  
12 CCR 923.8 shall be three years.

13 (v) The required plan shall fully describe: (i) the type and location  
14 of each measure needed to fully offset sediment or thermal loading or  
15 cumulative watershed effects from timber operations, and (ii) the person(s)  
16 responsible for the implementation of each measure, if other than the timber  
17 operator.

18 In proposing, reviewing, and approving such measures, preference shall  
19 be given to the following: (i) measures that are both onsite (i.e., on or  
20 near the plan area) and in-kind (i.e., erosion control measures where  
21 sediment is the problem), and (ii) sites that are located to maximize the  
22 benefits to the impacted portion of a watercourse or lake. Out-of-kind  
23 measures (i.e., improving shade where sediment is the problem) shall not be  
24 approved as meeting the requirements of this subsection.

25 (w) No salvage logging is allowed in a WLPZ without: (i) written  
concurrence from DFG or an approved HCP with NMFS and (ii) an SYP or approved

1 plan that contains a section that sets forth objectives, goals, and  
2 measurable results for streamside salvage operations.

3 (x) Where these measures would not achieve the goals set forth in  
4 subsection (a), other measures that would effectively achieve such  
5 conformance may be approved in accordance with 14 CCR, 916.6 [936.6, 956.6].

6 (y) Site preparation activities that result in soil disturbance within  
7 or cause sediment movement into the channel of watercourses shall not be  
8 conducted. Prior to any burning, burning prescriptions shall be designed to  
9 prevent loss of large woody debris in watercourses, and vegetation and duff  
10 within a WLPZ, ELZ or EEZ. When burning prescriptions are proposed, the  
11 measures or burning restrictions which are intended to accomplish this goal  
12 shall be stated in the required plan and the burning permit. This  
13 information shall be provided in addition to the information required under  
14 14 CCR 915.4 [935.4, 954.4].

15 (z) Water drafting for timber operations shall conform with the  
16 following standards:

17 (1) Drafting is prohibited if surface flow: (i) is less than two cubic  
18 feet per second or (ii) would be reduced by more than 20% below the drafting  
19 or diversion point.

20 (2) Water holes shall not be constructed in watercourses or lakes.

21 (3) Intakes shall be screened in Class I and Class II waters.

22 (4) Approaches to drafting locations within a WLPZ shall be surfaced  
23 with rock or other suitable material to avoid generation of sediment.

24 (aa) No timber operations are allowed in the WLPZ, EEZ, or ELZ under  
25 emergency notices or exemption notices.



1 Note: Authority cited: Sections 4551, 4562.7 and 21000(g), Public  
2 Resources Code. Reference: Sections 751, 4512, 4513, 4551.5, 21000(g),  
3 21001(b) and 21002.1, Public Resources Code; Sections 100, 1243, 13050(f)  
4 Water Code; Sections 1600 and 5650(c), Fish and Game Code; and 33 USC Section  
5 1288(b)(2)(F).

6  
7 **Adopt §§ 923.9 [943.9, 963.9] Road and Landings in Watersheds with Threatened**  
8 **or Impaired Values.**

9 In addition to all other district Forest Practice Rules, the following  
10 requirements shall apply in any planning watershed with threatened or  
11 impaired values:

12 (a) Where road construction or reconstruction is proposed, the required  
13 plan shall state the locations of and specifications for road or landing  
14 abandonment or other mitigation measures to achieve no net increase in road  
15 density within the ownership within the watershed.

16 (b) New and reconstructed logging roads shall be no wider than 14 feet  
17 for tractor yarding areas and 16 feet where cable yarders are employed. They  
18 shall be outsloped and drained with water breaks. Where the road grade is  
19 inclined at 7 percent or less, rolling dips shall be used.

20 (c) The following shall apply on slopes greater than 50%:

21 (1) Specific provisions of construction shall be identified and  
22 described for new roads.

23 (2) Where cutbank stability is not an issue, roads may be constructed  
24 as a full-benched cut (no fill). Spoils shall be disposed of in stable areas  
25 with less than 30 percent slope and outside of any WLPZ, EEZ, or ELZ.

1       (3) Alternatively, roads may be built with balanced cuts and fills if  
2 properly engineered with fills reinforcement or retainment, or fills may be  
3 removed with the slopes recontoured prior to the winter period.

4       (d) In addition to the provisions listed under 14 CCR 923.1(e)  
5 [943.1(e), 963.1(e)], all logging roads with a grade of 20% or greater that  
6 extends 500 continuous feet or more shall be surfaced with rock.

7       (e) Where situations exist that elevate risks to the factors set forth  
8 in 14 CCR 916.2(b), [936.2(b), 956.2(b)] (e.g., road networks are remote, the  
9 landscape is unstable, water conveyance features historically have a high  
10 failure rate, culvert fills are large) drainage structures and erosion  
11 control features shall be oversized, self-maintaining, or reinforced, or they  
12 shall be removed before the completion of the timber operation. The method  
13 of analysis used to design crossing protection shall be included in the  
14 required plan.

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16       Note: Authority cited: Sections 4551, 4551.5, 4553, 4562.7 and  
17 21000(g), Public Resources Code. Reference: Sections 751, 4512, 4513, 4551,  
18 4551.5, 4562.5, 4562.7, 21000(g), 21001(b) and 21002.1, Public Resources  
19 Code; Sections 100, 1243, 13050(f) Water Code; Sections 1600 and 5650(c),  
20 Fish and Game Code; and 33 USC Section 1288(b); *Natural Resources Defense*  
21 *Council, Inc. v. Arcata Natl. Corp.* (1976) 59 Cal.App. 3d 959, 131 Cal.Rptr.  
22 172.

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24 doh: 7/8/99  
25 File: Proposed Rule Text